R. benwooii 20171014DJM01 14985
Russula 18 SAT 05-265-08 (WA R. benwooii but looks like R. murrillii)
Woo 67 3/0/14 BW 480
Woo 67 3/0 BW 409
Russula benwooi WA iNat101581464
Russula benwooii (slightly acrid) WA iNat34666625
Russula benwooii (iNat 17704166)
R. benwooii 0/0/3 WA iNat34944705
Russula 14 FTNF 10-251-18 (AK R. benwooii 0/0 some WA stem very flushed)
Russula benwooii BC Campbell River JMK2022174R
KX812826 R. mendocinensis TYPE CA ITS1 (short) purple hot
Woo 68 benwooii 3/0+5/0 ITS2 (but dirty elsewhere) BW 066
Woo 67 BenWooii (61)
UDB031535 R. paludosa UNITE EU unanimous + NBC F32603
Russula 13 FTNF 10-251-15 (AK R. paludosa)
UDB031751 R. paludosa EU (alleles)
Russula (Macowanites) Vancouver BC KX812840
Russula chlorineolens WA iNat128647681 (type OR)
MT955146.1 Russula chlorineolens AK SAT-11-244-12
R. risigallina (=lutea) UNITE EU 1 UDB015998
AY061713 Russula risigallina Bart
R. risigallina UNITE EU 2 (2/1 postiana) UDB000912
Woo 69a postiana AK 2/0 BW 253 1/0 postiana BW 955
Russula 32 SAT 11-236-13 (AK R. postiana)
R. postiana UNITE EU overwhelming+Bart UDB000897
HQ604848 R. postiana JLF (3-4 ITS1 1-3 ITS2)
Russula aff postiana Woo 69 WA iNat 43028874
Woo 69 postiana WA BW 253 (2)
OQ322419.1 Russula Woo 69 PQx2
Russula grundii TYPE CA (as basifurcata)
Russula intermedia UNITE unanimous EU (red cap)
Russula intermedia PNW02 WA iNat 34667460 8/1 (pale yellow cap)
Russula californiensis CA (2/0 KX812821 TYPE ITS1) AY245542
R. aff vinososordida UNITE EU UDB011362
R. vinososordida TYPE Fin UDB011115
Russula mendocinensis CA cf decolorans (1/0 ITS1 type match) DQ367913
KX812832 R. viridofusca 1979 TYPE WA ITS1 (short)
R. aff vinososordida BW 36
R. aff vinososordida BW 315
Woo 56 aff californiensis 6/2 (1)
R. aff vinososordida BW 34
R. aff vinososordida BW 396
R. aff vinososordida BW 911
R. aff vinososordida BW 87
R. aff vinososordida BW 1083
R aff vinososordida BW 586
Woo 57 BW 198 aff vinososordida (4 UNITE 1 1 TYPE) (10)
R. aff vinososordida BW 319
R. caerulea UNITE EU consensus UDB000353
JF834349.1 Russula basifurcata PNW01 CA
Russula basifurcata PNW01 WA iNat128709146 Beug oak
R. firmula UNITE EU consensus UDB016073
AF418630 Russula veternosa UNITE EU unanimous
Woo 55 aff firmula 98 (but 1 diff in longish strings only) (7)
Woo55 aff firmula ID iNat195590826
Russula Woo54 punicea nom ill OR iNat99432404
Woo 54 punicea nom ill (2)
JF834344 Russula Woo54 punicea nom ill CA
Woo 63 vinosa BW 894
Russula vinosa WA (iNat 17704352 17704282)
Woo 63 vinosa (occidentalis) (9)
Russula vinosa CA iNat182688435
AY061724 Russula vinosa UNITE EU overwhelming + Bart (2/0 WNA)
AY061665 R. claroflava (=flava but var pacifica type PNW) UNITE EU overwh+Bart
Russula pubescens UNITE Finx4 (type Fin) UDB036974
MT583289.1 Russula pubescens UNITE Finx4 (+circumboreal)
Russula pubescens AK iNat6750498
Russula pubescens Fin 2 (type Fin) UDB011111
AF335442 Russula mordax Seattle (TYPE WA match)
Russula 3 SAT 97-263-07 (WA R. mordax chunk of 3 indel from ITS1 TYPE)
Russula mordax WA (iNat 17704208)
Russula mordax (greying as vinososordia) OR (MP 6598893)
KX812828 R. mordax TYPE WA ITS1 (short)
iNat 34346623 Russula mordax BTSP
iNat 34329315 Russula mordax BTSP
Woo 62 mordax = tenuiceps (68)
Russula mordax WA (iNat 17704170)
Woo 62 mordax (BW 458)
Woo 62 mordax grp (BW 718)
Woo 62 mordax grp (BW 672)
JF834368 Russula ocher oaks 1/2 PNW03 CA
Russula ocher oaks 1/2 PNW03 OR iNat128393456
Woo 41 Arcata CALIFORNIA redwood oak madrone (1)
Woo 64 aff velenovskyi 5/0 (1) Seattle birch
EF218811.1 Russula Woo64 aff velenovskyi Interior BC
R. velenovskyi UNITE EU overwhelming+Bart AY061721
R. integra UNITE EU overwhelming+Bart AY061683
Russula Woo65 Marty 393F spring
Russula Woo65 Marty 394B spring
Russula Woo65 (2 100) ITS2
Woo 66 sierrensis (x12) ITS2
JF834336.1 Russula sierrensis CA match to ITS1 type + ITS2 Woo 66
Russula sierrensis WA iNat 18217120
KX812830 Russula sierrensis ITS1 TYPE CA (short)
R. integriformis UNITE EU consensus+Bart AY061684
Russula sierrensis OR iNat35169996
KX812833 Russula zelleri TYPE OR ITS1 (short)
Russula decolorans Mary UBC Yun Ting Pang (dirty)
R. decolorans NBC Marty UDB024044
R. decolorans NBC Marty JMK2016030
Russula decolorans Campbell River Vanc Isl Marty
Russula decolorans UNITE EU overwhelming AY194601
Russula 29 SAT 10-207-07 AK R. decolorans
Russula cf idahoensis OR iNat63450939
KT968586.1 R. idahoensis OR Trappe 1600 (sister to entire garbage clade)
Russula cf idahoensis OR iNat19018063 (short 2/1/100)
Russula AK emetica iNat67650541
R. nitida UNITE unanimous KU205349
Russula 38 SAT 13-286-04 (WA birch R. nitida atypical)
GU998665 Russula sphagnophila NA+EU (type MI) UNITE 1
KU205348.1 Russula chamiteae TYPE Fr (= older subrubens)
Russula subrubens UNITE EUx50 UDb002453
Russula subrubens WA iNat152769204
Russula subrubens UNITE EUx40 (= newer chamiteae) GU234054
R. pseudo-olivascens 2002 TYPE (=clavipes Adamcik =elaeodes) KU205304
Russula clavipes 1920 official Adamcik UDB011174 (=R. pascua DNA)
KU205345 Russula nuoljae official Adamcik
Russula 34 SAT 12-248-01 AK (R. nuoljae)
Russula viridofusca 1979 BC (TYPE WA match)
Russula cf favrei 1979 UNITE NA (type EU) KJ146730
R. viridofusca WA iNat34943706 olive-tan
Woo 59 grp 2/0 BW 1018
Woo 59 viridofusca (31)
Woo 59 grp BW 605
Russula viridofusca Mary BC KLB
Russula favrei 1979 UNITE EU NA JF908683
AY228344 Russula favrei Woo 60 Mary UBC
Woo 60 favrei elaeodes (8)
Woo 60 favrei grp BW 1077
HM240542 Russula favrei Mary UBC
Russula xerampelina (UNITE overwhelming EU consensus) AY641462
Russula aff xerampelina (UNITE NA consensus) KJ748429
Russula aff xerampelina (3/0 ITS + 4/1 other) WA (iNat 17704264) Woo 2018
Russula Woo 61 aff xerampelina WA (iNat 17704364)
Russula 21 SAT 08-231-10 (NM Copper xerampelina PNW)
Russula 17 SAT 05-259-04 (R. xerampelina PNW)
Woo 61 aff xerampelina (13)
Russula Woo 61 aff xerampelina S. Sound (iNat 14391113) looks like occidentalis DNA (error)
R. olivacea UNITE EU 2 UDB000322
R. olivacea UNITE EU 3 UDB000323
R. alutacea (only UNITE EU) UDB031172
R. olivacea UNITE EU 1 UDB011195
KY582715 Russula olivacea UNITE EU 4
R. Woo 58 cf olivacea FeSO4+ WA iNat34666166
Russula olivacea Woo58 OR iNat34192596
Russula olivacea Woo58 OR iNat58924670 OQ453810
Woo 58 cf olivacea
Woo 58 cf olivacea Marty F31199 Victoria
KX812820 Russula bicolor TYPE VT (short ITS1)
Woo 70 grp (BW 172) (0/0 Buck16859)
R. murrillii Buck 16859 (alleles)
Woo 70 murrillii (9) (caps UV+)
R. turci UNITE EU 3 HM146851
R. amethystina UNITE EU 3 KM517237
R. amethystina UNITE EU 2 UDB000303
R. amethystina UNITE EU 1 UDB063602
R. turci UNITE Asia+EU 2 UDB018793
R. murrillii Buck 16861 (alleles)
Russula murrillii Marty F31220 Sooke SBC
BTSP 03883 Russula murrillii alleles
Woo 71 BW 1029 (3)
Russula Woo71 Mary BC SIL
AY061720 Russula turci EU Anna/Bart
R. turci UNITE EU 1 UDB037377 (1/1+5/1 Woo 72)
KF007951 R. avellaneiceps (Anna says TYPE match why)
R. turci UNITE EU 4 KY582703 (1/1+3/3 Woo 72)
Woo 72 3/0 BW 489
Woo 72 2/0 BW 639
iNat17704233 Russula Woo 72 turci 1/0 (photo odd) WA (+short WA iNat17704217)
Woo 72 turci (36)
Russula Woo 72 turci Marty F31213 Sooke SBC
AY656976 R. bicolor 1/0 TYPE match
Woo 42 cf puellaris (1) KX812946 Fall
Russula Woo 42 OR spring SAT-15-150-1 (dried stem somewhat yellow-tan)
Russula Woo 42 iNat35711270 OR fall
HQ703024 Russula puellaris UNITE EU overwhelming
KT697970 Russula cremeirosea UNITE 2 MX
KT933983 Russula cremeirosea UNITE NA 1 (type FL)
EU819514 Russula cremeirosea UNITE NA 3
EU598179 Russula cf abietina TN (type NY) (2/0 Woo) Bart
KF359677 Russula cf abietina TN (1/0 TN)
Woo 45 BW 508 aff cf abietina (4)
BW 1063 R. aff cf abietina (2/0 BW 508 etc)
R. olivina UNITE EU 2 UDB002598 (wrong yellowing clade)
R. sapinea Woo 43 2/1 ITS+2/0 Buck16856
KR019818 Russula sapinea UNITE EU unanimous overwhelming
R. sapinea Woo 43 (as sphagnophila UNITE NA 2) 4/0 ITS+3/0 JMK2016036 Vanc. Isl
Woo 43 BW 644 R. sapinea 1/0 (5)
BW 861 R. sapinea 3/0
Russula cessans (only UNITE EU) JN944011
KY582706 Russula odorata UNITE EU
Woo 44 aff versicolor yet birch (2/1 ITS2 +4 ITS1) (1)
FJ845431 Russula aff versicolor Woo44 (6/0-1) (as gracilis) NBC conifers
UDB031648 R. versicolor UNITE EU 2 (aff versicolor WA)
Russula Woo 44 aff versicolor AK iNat100100884
Russula Woo 44 SAT 15-314-03 (R. aff versicolor Seattle cottonwoods)
Russula Woo44 aff versicolor Populus WA iNat34749707 (=genbank odorata 2 = UNITE)
iNat31303571 Russula versicolor 1/0 WA birch
UDB011096 R. versicolor UNITE EU 3 (1/300) (0/0-4 ITS1)
AY061722 Russula versicolor Bart
HQ445521 Russula versicolor UNITE EU 1
Russula brunneoviolacea UNITE EU unanimous (type China) UDB015985
Russula pelargonia UNITE EU overwhelming UDB0352249
Russula pelargonia UNITE EU 2 (single record) UDB025080
AF506465 Russula cf violacea EU genbank
AY061725 Russula violacea EU Bart
Woo 48 (1) Shelton WA (brown w/ dk purple disc)
Russula JLF2245 iNat36563061 Woo 58 cf olivacea (0/0 little overlap)
NR 137756 Russula jilinensis TYPE China 2012 (0/0-1 aurantioflammans)
UDB015060 R. aurantioflammans UNITE EU unanimous 1998
Russula aurantioflammans Williams Lk BC Marty envir pure Doug fir
Russula aurantioflammans AZ iNat44321947
Russula aurantioflammans 31 SAT 11-217-03 Fairbanks AK acrid birch-aspen
Russula aurantioflammans AZ iNat44322692
Russula aurantioflammans AZ iNat44318785
Woo 49 (1) Satus Pass WA (cream cap)
Russula AK01 CO iNat129477291
Russula 30 SAT 11-217-02 (Russula AK01)
Russula AK01 N BC Marty UDB024046
Russula graminea Buck 122 1 WA (0/0 Woo 47)
Russula 33 SAT 12-247-02 (AK R. graminea)
Russula 36 SAT 13-274-05 (AK R. graminea much purple)
Russula graminea NAMA2018 OR (iNat 17477866)
Russula graminea ID iNat178208670
Russula 46 SAT 16-244-09 (AK R. graminea dk purple green center)
Russula graminea UNITE EU unanimous KC164353
Woo 47 graminea 0/1 (14)
R. graminea JLF3426 Crater Lk OR (yellow spicy)
R. graminea iNat36563847 JLF3428 Crater Lk OR (yellow spicy)
Russula 16 SAT 04-274-01 (WA Arb R. obscurozelleri)
Russula obscurozelleri HOT WA iNat34942612
Woo 50 obscurozelleri (40)
Russula obscurozelleri Vashon WA (MO 342154)
MP 6598753 - Russula obscurozelleri NAMA2018
Russula obscurozelleri OR iNat17471827
BW 953 Russula pseudotsugarum TYPE WA KX813578 Woo 52
Woo 52 pseudotsugarum (25)
Russula Woo 51a (cf cessans) Victoria BC KX812850 F30306 (unsp. trees)
JF834352 Russula Woo 51a CA (as cf murrillii)
Russula Woo 51a Marty 384F Victoria
Russula cessans Anna EU TU101805 UDB015971
Russula nauseosa UNITE EU 2 UDB011164
KT933985 Russula nauseosa UNITE EU 1
Russula pseudotsugarum OR NAMA 2018 (iNat 17471976 greenish tones WA 17704180)
R. pseudotsugarum JMK2016040 Vanc Isl
Russula subloculata ID (same ITS as R. zelleri)
SVMFA074 Russula zelleri AB
Woo 51 (2)
Russula 12 FTNF 10-249-32 (AK R. zelleri 100 ITS1 TYPE)
Woo 53 zelleri (16) (all =2/0 type)
JF834326 Russula zelleri longer CA (1/0 ITS1 type match)
R. olivina UNITE EU 1 +Bart UDB016260 (4/1 ITS1+3/1 ITS2 olivobrunnea)
R. olivobrunnea UNITE EU 1+Bart UDB011113 (2 locked 1)
Woo 46 aff olivobrunnea (3 100) (2/0 olivobrunnea ITS2)
Woo 46 (longer) WA iNat49152192 (6/0 olivobrunnea) (Doug fir+alder)
Russula Woo 46 WA iNat124747995
RUSSULA DENSIFOLIA (OUTGROUP)
0.050